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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/678,104	10/06/2003	Baptiste Colotte	243526US2	1065
22850	590 11/04/2004		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			DINH, TIEN QUANG	
ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER	
	,	•	3644	

DATE MAILED: 11/04/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/678,104	COLOTTE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Tien Dinh	3644				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>05 At</u>	uaust 2004.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)						
Application Papers						
9) The specification is objected to by the Examine	r. ·					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau	s have been received. s have been received in Applicati ity documents have been receive ı (PCT Rule 17.2(a)).	on No ed in this National Stage				
* See the attached detailed Office action for a list	or the certified copies not receive					
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da					

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DETAILED ACTION

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Information Disclosure Statement

The information disclosure statement filed 3/1/04 fails to comply with 37 CFR 1.98(a)(1), which requires a list of all patents, publications, or other information submitted for consideration by the Office. It has been placed in the application file, but the information referred to therein has not been considered.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 6 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 6, last line "said electronic unit state data between said channels" lacks antecedent basis. What is this electronic state data between said channels?

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baudu et al in view of Johnson et al or Johnson.

Baudu et al teaches a thrust reverser for a turbojet having doors controlled by electronic control unit, sensors 16a, 16b, 22, 24, 30, and 31 to measure the state of the devices in the thrust reverser system, FADEC 1 connected to electronic the control unit, drives from control actuators, mechanical blocking device 14a, and abutment locking device 21, but is silent on the two channels. However, Johnson et al teaches that two channels control in the FADEC is well known in the art. See figure 4 and column 4, lines 28-44. Johnson teaches two channels in the FADEC (see figure 4) are well known in the art.

It would have been obvious to one skilled in the art at the time the invention was made to have used a FADEC having two channels in Baudu et al's system as taught by Johnson et al or Johnson to create a more reliable system.

Please note that the use of more than one electronic control units (one being assigned to each door) involves the basic routine step that one skilled in the art would have made so as to provide redundancy to the system so that if one was to fail the other one can know and provide safe operation of the thrust reverser.

Please also note that Baudu et al also discloses that that the electronic control unit 20 may be integrated into the FADEC system (see column 2). Please also note that the control unit 20 of Baudu et al provides data to the FADEC regarding the status of the various drive devices and the position of the movable thrust reverser component. Please also note that on column 4, it is stated that "the various components of the electric control system are interconnected to each other..."

Response to Arguments

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The Examiner would like to first point out that the Baudu et al reference seems to show two channels from the FADEC 1 to communicate with the electronic control unit. However, the Examiner has decided to use the Johnson or Johnson et al reference to clearly teach that two channels are very well known in the art. Furthermore, the Examiner did point out that using multiple electronic control units for redundancy purposes merely involves only routine skill in the art. Taken this into account, please note that since a FADEC is connected to the individual electronic control units, the channels in the FADEC would inherently be connected to each other to exchange data since a FADEC is a computer system and computer systems exchange data all the time in order to operate. So if one control unit and one channel break down, the FADEC system would know it.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tien Dinh whose telephone number is 703-308-2798. The examiner can normally be reached on 9-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Carone can be reached on 703-306-4198. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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